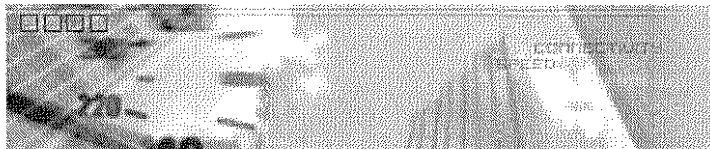


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Products/Services > Lit Bandwidth

Lit Bandwidth
EtherGLASS
WaveGLASS**FastGLASS****Lit Bandwidth**

We provide the metropolitan data transport services you need - where, when and how you need them. Our end-to-end, redundant networks offer the full spectrum of SONET/SDH, Ethernet and Wavelength services on our flexible, application-neutral optical platforms - speeds ranging from 1.544 Mbps to 10 Gbps.

Dark Fiber**Collocation****Design and Construction****CentraGLASS****Product Features**

- Consistent rapid provisioning times
- Extensive menu of services
- Vast connectivity with build-out capability
- Unparalleled scalability and flexibility
- Simple migration to higher speeds
- Physical diversity from other fiber providers

Types Of Services

- [FastGLASSSM SONET/SDH services](#)
- [EtherGLASSSM Ethernet services](#)
- [WaveGLASSSM Wavelength services](#)

Product Brochure[LitColloBrochure.pdf](#)**Lit Bandwidth**

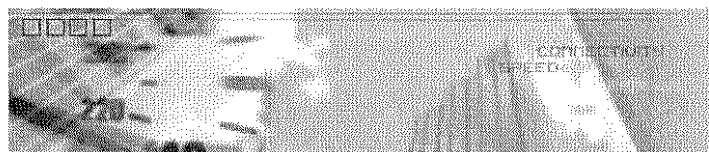
SONET/SDH, Ethernet and Wavelength services at the speeds you need.



For more information contact: sales@lglass.net or call 1-866-778-LGN1(5461)

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About Us

Management Board

Looking Glass Networks®, Inc. provides fast delivery of SONET/SDH, Wavelength and Ethernet-based lit services, high-capacity dark fiber and carrier-neutral collocation services in addition to custom design and build services for carrier and enterprise customers. A facilities-based company, Looking Glass builds, owns and operates metropolitan fiber optic networks using the most flexible optical and operational support systems available to provide telecommunications services in the largest U.S. metro areas. Looking Glass' physically diverse networks provide customers with connections to primary carrier hotels, ILEC Central Offices, key enterprise buildings and other major data aggregation facilities.

Press

News

Events

Formed by proven telecommunications executives with successful metro network management experience, Looking Glass provides focused local network connectivity, flexible service options and fast delivery times that customers need to keep pace with growing market demands.

Careers Benefits

Since April of 2000, Looking Glass has raised \$475 million in total capital including \$200 million in initial private equity financing led by Madison Dearborn Partners and Battery Ventures.

Newsletters



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Products/Services > Dark Fiber

[Lit Bandwidth](#)
[EtherGLASS](#)
[WaveGLASS](#)[FastGLASS](#)**DarkGLASSSM - Dark Fiber**

We provide the dark fiber you need where, when and how you need it. Our DarkGLASSSM dark fiber solutions offer flexible, fixed-cost access to virtually unlimited capacity. You get the security advantages of ring configuration and exclusive use of each fiber pair plus end-to-end control of speed and bandwidth with the option of supplying your own electronics.

Our metro networks are built to carry extraordinarily high capacity - up to 864 strands of fiber. Because we build, own and maintain our networks, we are physically diverse from other fiber providers and can bring the dark fiber and fiber infrastructure you want wherever you need it. You benefit from our scalability and flexibility as we expand our footprint to meet your changing needs.

Our technologically advanced, high-grade fiber optic cable supports the full spectrum of bandwidth applications including disaster recovery, data warehousing, mirroring, streaming audio/video, distance learning and multiple technologies such as IP, SONET/SDH, DWDM, Fibre Channel, ATM, Frame Relay and Gigabit Ethernet. Our presence at data aggregation points in the top U.S. metro areas ensures reliable access to IXC, ISP, ILEC and CLEC locations as well as Web hosting facilities and data centers.

Why DarkGLASSSM?

- Virtually unlimited capacity
- Flexibility to build to meet your specific needs
- Redundant networks connected to major data aggregation locations
- Support for all applications and technologies
- Your choice of access options

Product Features**Dark Fiber Access Where You Need It**

With connectivity in primary Carrier Hotels, ILEC Central Offices (COs) and key enterprise buildings in major U.S. metro markets, DarkGLASS connects you where you need to be. Depending on your location and requirements, we offer the following access options:

- Zero manhole - Street-level access at Looking Glass manholes
- Point of Presence (POP) - Access at Looking Glass termination panels in buildings where Looking Glass maintains a presence
- Customer location - Termination at the customer's location
- ILEC Central Office - Access via the Looking Glass collocation area inside the ILEC central office

At the Leading Edge of Fiber

Our technologically advanced, high-grade fiber optic cable supports the full spectrum of bandwidth applications.

Dark Fiber

Flexible, fixed-cost access to virtually unlimited capacity.



Quality and Security

Our commitment to network quality and security is second to none, and is evident throughout our operations. Quality and security play a prominent role at our national Network Operations Control Center (NOCC), where we provide performance monitoring, alarm surveillance and expert support and service 24x7. Additionally, we participate in local One Call, Call Before You Dig, Dig Safe and Dig Alert programs.

Product Brochure



DarkFiber.pdf

For more information contact: sales@lglass.net or call 1-866-778-LGN1(5461)

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Wholesale Services

[Carrier Access Services](#)[Private Line Carrier Services](#)[Colocation Services](#)[Local PRI Carrier Services](#)[Carrier Origination Services](#)[Dedicated Carrier Termination Services](#)[More Services](#)[Request General Information](#)[Frequently Asked Questions](#)**Related Links**[Click here for more information](#)**Wholesale Services****Competitive Carrier Access Services****Seize Telecom Market Opportunities**

If your company is looking to unlock opportunities created by deregulation in the telecommunications industry, Competitive Carrier Access Services from McLeodUSA holds the key. Our dedicated team of experts can help you understand your access opportunities, calculate rates, and choose the right product and technical support options based on your unique needs.

McLeodUSA Competitive Carrier Access Services feature:

- Direct connection to the local telephone company allowing the seamless exchange of local traffic
- Access to our advanced fiber-optic network spanning 108 cities, as well as rural areas, throughout 25 Midwest, Southwest, Northwest and Rocky Mountain States
- Various high-capacity, dedicated access transport services including POP-to-POP (point of presence) connectivity, POP-to-CO (central office) connectivity, POP/CO-to-end-user connectivity, and Virtual POPs
- Private line transport service in T1, T3 and OC-n bandwidth increments
- Diversity, redundancy, interconnection and colocation options
- 24/7 customer service and network support from highly experienced professionals

For more information on McLeodUSA Carrier Sales, please contact Rhonda Csolak at 636-812-3084 or via email at rcsolak@mcleodusa.com

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NEON NEWS

Last Updated 05/10/2

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- ▶ Globix Closes Me NEON
- ▶ Ethernet Going L

OUR **MISSION** IS TO BE THE PREMIER REGIONAL SERVICE PROVIDER OF ADVANCED OPTICAL NETWORK SOLUTIONS AND SERVICES FOR OUR CUSTOMERS IN THE NORTHEAST AND MID-ATLANTIC M

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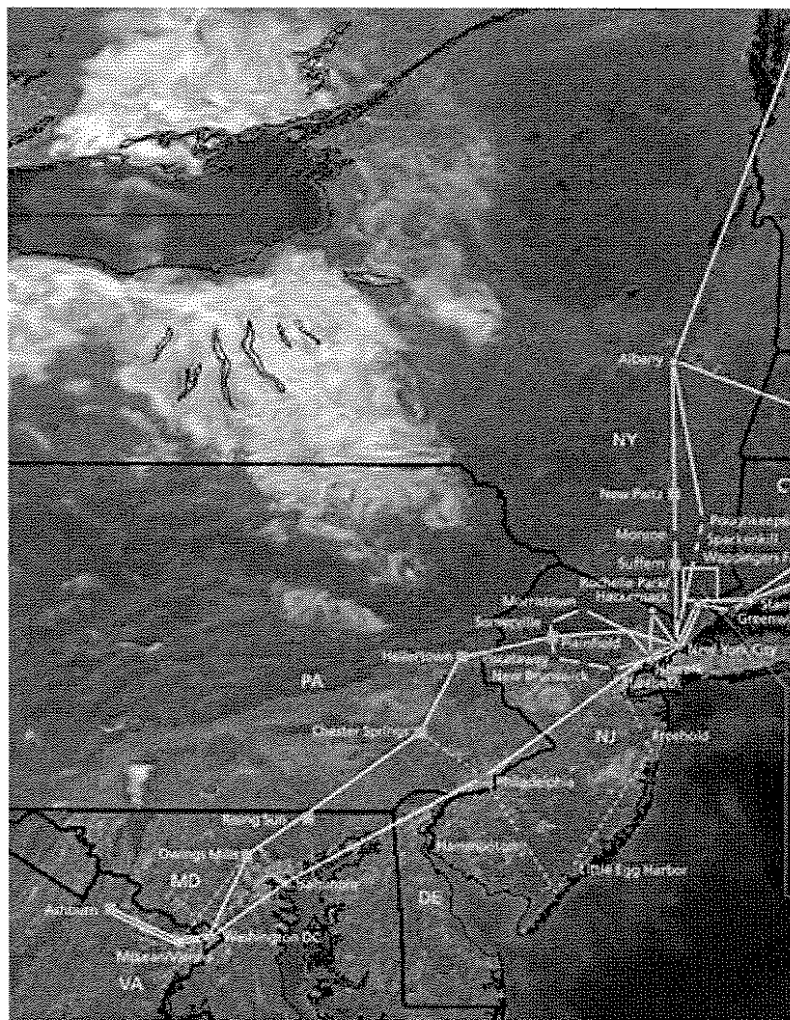
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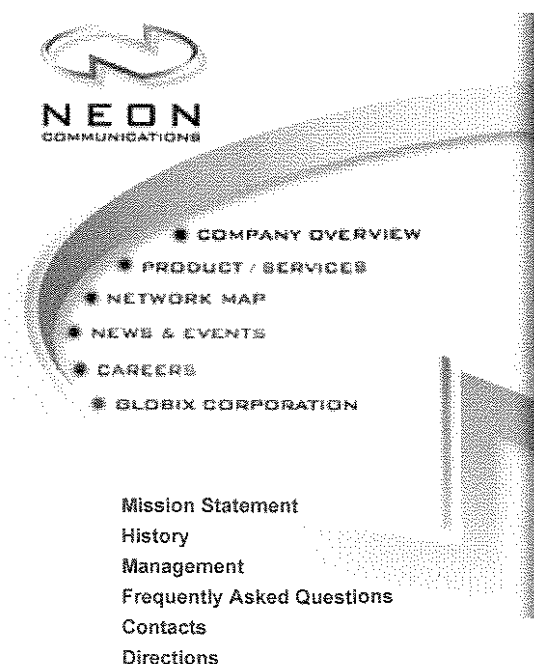


- COMPANY OVERVIEW
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Network Map — Interactive

Click on a city to see a more detailed map:





Company Overview

 [CorporateOverview.pdf](#)

Providing End-to-End Bandwidth Services and Solutions

CAPABILITY

Put your networking needs in the reliable hands of the most technically capable carrier company.

NEON Encompasses a Full Spectrum of Network Capabilities.

In today's information-driven world, the demand for high-capacity bandwidth continues to grow exponentially. Businesses demand swift movement of vital information among multiple operations centers. Consumers expect instant response and trouble-free continuity of service.

NEON Communications is unique among facilities-based bandwidth providers for our diverse network in one of the most valuable telecommunications markets in the world. Our dense build network, with more than 170 Points of Presence (POPs), provides customers quick, cost effective and comprehensive connectivity to critical communications facilities and enterprise locations throughout our footprint.

That's why communications carriers, enterprise accounts, competitive local exchange companies (CLECs), Internet service providers (ISPs), wireless companies, and cable television operators choose NEON.

The NEON Network: A Well-Traveled Route.

NEON has been deploying its network since 1994 throughout the nation's busiest telecommunications corridor, more quickly, easily, and cost effectively than our competition. The 12-state, \$87-billion market encompasses 28 percent of the nation's communications market and extends from New England, New York City, and the north Atlantic coast to Philadelphia, Baltimore, Washington, DC, and into Virginia.

Our customers leverage the NEON network to reach more than 500,000 businesses and 18 million households in the dense Northeast and mid-Atlantic market.

Our high-capacity Synchronous Optical Network (SONET) over geographically diverse fiber routes, provides a cost effective, fully redundant bandwidth solution for our customers. Coupled with our proven and innovative Dense Wave Division Multiplexing (DWDM) services, NEON provides unparalleled capacity coursing through the dense telecommunications market in the world. And, since NEON facilities are located in secure rights-of-way, we offer the utmost in system integrity, while providing carriers and enterprise customers with hassle-free routes to virtually any building with a light bulb.

Our capability to respond to customer needs for end-to-end communications solutions and to take them where they need to be provides a decided edge in winning new business partnerships.

The Power Of Metro Access.

Through partner agreements and acquisitions, NEON has gained unsurpassed access and reach in the extremely valuable metropolitan markets we serve. Companies that partner with us can be confident of our strength within the industry, our commitment to the most advanced technologies, our expertise across the spectrum of broadband services, and our extraordinary market reach and access.

AVAILABILITY

With more POPs, NEON can meet your expanding growth needs with a wide spectrum of evolving services.

Our network is continually evolving to meet the demand for bandwidth.

At NEON, we recognize the urgency of delivering comprehensive, reliable, and cost effective end-to-end communications solutions in a timely manner. After all, most businesses today consider communications network connectivity indispensable to their very survival. Our extensive network reach and connectivity is available today throughout our footprint. And, the NEON team is available now to meet your bandwidth needs.

Lighting The Way.

Our carrier partners know they can rely on NEON to meet their customers' extremely time-sensitive demands. Our network is built with available capacity at all bandwidth levels from DS-3s to OC-48s with SONET, and 2.5 and 10 gigabits per second speeds with our innovative wavelength services.

In addition to having a large degree of circuits already in place, the NEON network comprises a unique and highly desirable footprint. By locating our network strategically, we cover areas that are otherwise unavailable, providing true diversity to our customers. We have service where our competitors can't go, places that are critical for delivering seamless network connectivity.

In the future, we will continue this capillary expansion, offering a dimension of density unique to the industry. This increases NEON's leadership role as the bandwidth provider of choice within our footprint and to those who need to reach this market.

We are prepared today for tomorrow. For example, our high bandwidth network provides scalable capacity to meet future transport and connectivity requirements, and to

transparently support ever-evolving transmission standard for Internet, voice, video, and data services. Our exclusive innovation, wavelength service, means our carriers can satisfy the most comprehensive customer network requirements at the speed of light.

Access That Shines Beyond The Competition.

A regional provider, NEON offers its customers unsurpass global access. Specifically, our interstate, intercity, and local loop facilities comprise a network of more than 4,600 route miles and approximately 220,000 fiber miles. In addition, we provide connectivity to more than 170 POPs, including Local Switching Offices (LSOs) and carrier hotels—with many more to follow.

Instant access to the NEON network is instant access to the world.

FLEXIBILITY

NEON can provide you with a customized array of flexible services to meet your specific bandwidth needs. The full spectrum of service is within your reach. NEON offers a comprehensive range of communications products and services, including:

SONET Private Line Service. Our SONET Private Line Service provides both long-haul and metro SONET private line connectivity to our multi-POP network. NEON network architecture is designed to provide the highest level of protection and survivability by deploying proven geographically diverse, four-fiber, Bi-Directional Line Switched Rings (BLSRs). Bandwidth levels available include DS-3, OC-3, OC-12, and OC-48.

SONET Virtual Private Network Service. Our SONET Virtual Private Network Service provides an OC-48 or OC-12 virtual SONET ring connecting a predetermined set of locations. Once the service is established, any combination of DS-3s through OC-12s can be quickly added between locations up to the total capacity of the network.

Central Office Access Service. NEON's Central Office (CO) Access Service provides wholesale, high bandwidth SONET private line connectivity to key Incumbent Local Exchange Carrier (ILEC) COs for carriers and service providers serving the enterprise market. Carriers can connect to NEON from their colocation within the CO or order ILEC services directly to the NEON presence in the CO at the DS-3 level and above for virtual colocation.

Ethernet Private Line Service. NEON's Ethernet Service provides point-to-point Ethernet connectivity at Fast Ethernet (50 Mbps or 100 Mbps) as well as Gigabit Ethernet (600 Mbps or 1000 Mbps). Ethernet can be used to support applications such as LAN-to-LAN connectivity, storage area networking, Internet access, or disaster recovery solutions.

Custom Private Optical Network Solutions. NEON can

offer carriers and enterprise customers an innovative way get the specific optical networking solutions needed to achieve their objectives by designing, building, and managing a cost effective private network for them.

Colocation Service. Combined with our multi-POP network coverage, NEON's colocation facilities provide immediate high bandwidth connectivity to other LSOs, carrier POPs, NSP POPs, and enterprise facilities.

Wavelength Service. Our 2.5 and 10 Gbps Wavelength Service provides a flexible and scalable high-capacity transport solution with the benefits of competitive costs, improved speed-to-market, and enhanced network control compared to capital intensive and resource intensive dark fiber builds.

Network Control Center Service. NEON's Network Control Center Service provides clients with 24x7x365 network monitoring and associated technical services utilizing NEON's state-of-the-art Network Control Center (NCC).

Dark Fiber Service. NEON can serve as an end-to-end eastern seaboard provider. Using the latest in fiber technology and nonzero dispersion shifted TrueWave® fiber in transport facilities, NEON offers geographic diversity, expansive coverage, and 24x7x365 maintenance support.

Technology That Delivers.

The core benefits of our technology are based on the inherent properties of optical fiber itself. With greater tensile strength than copper or steel fibers of equal diameter, optical fiber has an information-transmitting capacity that's essentially infinite. Our fiber can support speeds of hundreds of gigabits per second—as well as carry numerous gigabit channels simultaneously.

The proven reliability of the NEON network is the result of our bi-directional, "self-healing" SONET ring architecture, including an OC-192 platform by one of the industry's leading equipment manufacturers. By utilizing a geographically diverse ring topology over a four-fiber, BLS system, our network ensures a high degree of flexibility and redundancy.

The NEON network also utilizes the latest generation of DWDM technology. DWDM provides NEON carrier partners and their customers with high-capacity transport, geographic diversity, and unsurpassed resilience.

We deploy the finest fiber available for enhancing metropolitan and long-haul capabilities. The result—a network that delivers greater system security and virtually uninterrupted uptime.

RELIABILITY

NEON provides end-to-end communications solutions for

the future.

Every day, hundreds of businesses and thousands of consumers located throughout Boston, New York, Philadelphia, Baltimore, Washington, DC, and a multitude of other cities and towns, use the NEON network to dependably place phone calls, access the Internet, and transfer data.

The NEON network is designed to provide the highest level of protection and survivability by deploying proven geographically distinct, four-fiber, BLSR SONET equipment and designs. We deploy time tested and proven carrier-class technology along distinct and reliable rights-of-way, integrated with diverse building entries wherever possible. Consequently, we provide our customers master service agreements with service level agreements that guarantee to 99.999% reliability where warranted and required. We have major network operations and service centers placed strategically along our network to facilitate fast and efficient network servicing.

Our network is designed to provide easy, cost-effective, and scalable bandwidth to help our customers stay ahead of changing connectivity requirements. For example, our regional OC-192 SONET ring architecture offers the utmost in overall system flexibility, with multiple optical add/drops along the network paths.

Our goal is to continually increase bandwidth capacity, enhance technological capabilities, and expand route diversity for near-ubiquitous coverage. With our wavelength and SONET services, we're ready now to reliably meet current and future bandwidth needs.

NEON At A Glance.

- Our comprehensive connectivity solutions, comprising of interstate, intercity, and local loop facilities, are located in the \$87 billion, 12-state Northeast and mid-Atlantic communications market.
- Our ever-expanding high technology oriented service area currently covers 28 percent of the nation's communications market.
- Our diverse network consists of over 4,600 route miles and approximately 220,000 fiber miles.
- We provide connectivity to over 170 POPs.
- We are geographically located close to our customers for fast, reliable service.
- We have an experienced customer support team in place, NEON's NCC which operates 24x7x365 with guaranteed response times.
- Our system is constantly monitored to alert us to any degradation of signal or loss of fiber capacity, thereby enabling us to easily pinpoint "trouble spots" and maintain a service reliability factor of 99.999%.
- We'll use our comprehensive range of communications products and services to develop

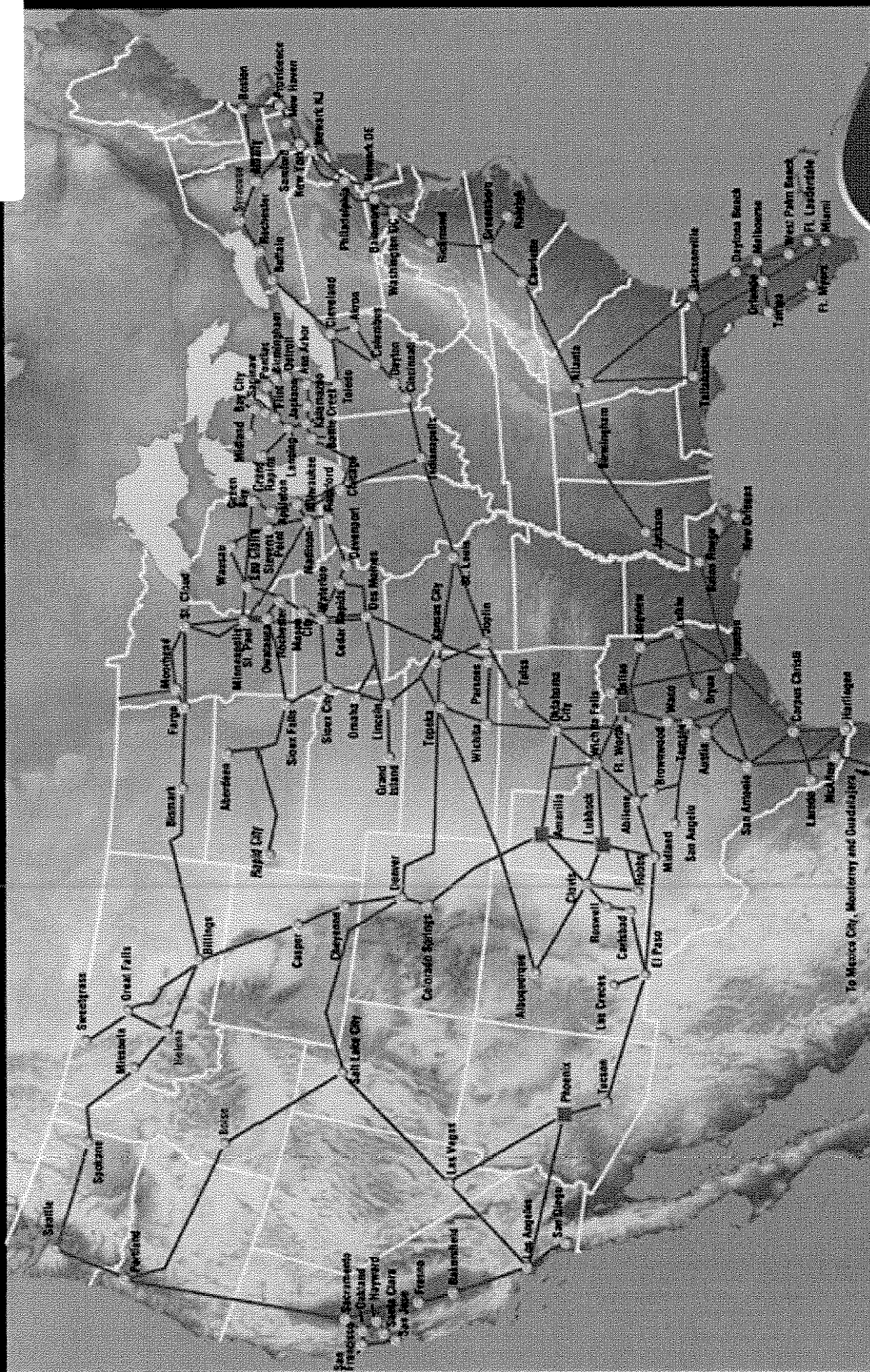
programs that meet your needs today and in the future.



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Description of Services

NTS provides nationwide switched terminating, switched toll free originating, dedicated point-to-point transport, and wholesale internet access services to wholesale carrier customers from every corner of the United States. For more information on our wide range of wholesale carrier products, please call our National Accounts Department at 1-800-658-2150.



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SOLUTIONS

Services

AdaptiveBuild

Services

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SONET

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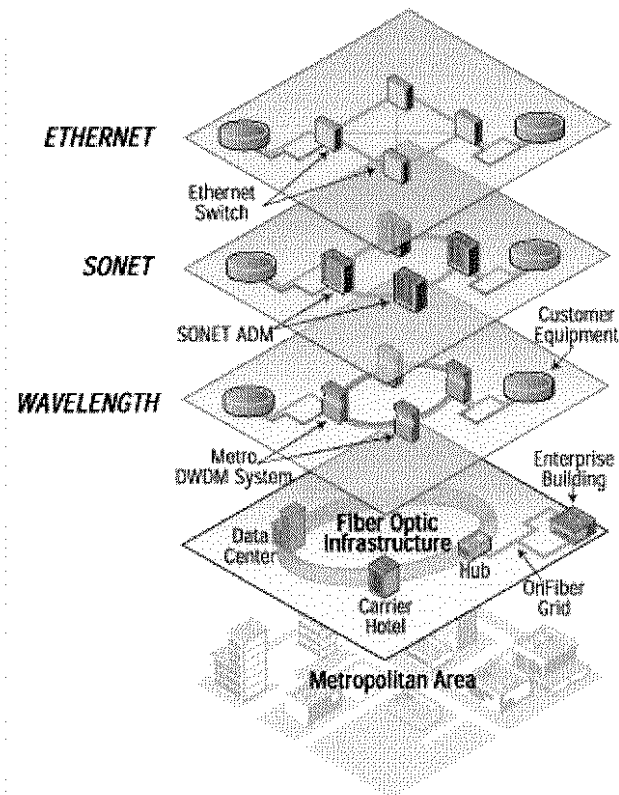
Network

Best of breed technologies enable our purpose-built networks.

OnFiber delivers fully managed, end-to-end, metropolitan area networks (MANs), wide area networks (WANs) and point-to-point network solutions that are optimized for specific needs of enterprises and service providers.

To deliver these solutions, OnFiber offers a full suite of optical transport technologies including:

- Wavelength Services. From 1.25 Gbps to 10 Gbps, OnFiber wavelength services offer protocol agnostic transport with up to 99.999% availability objectives.
- Ethernet Services. Cost effective and scalable from 10 Mbps to 1 Gbps to meet your changing bandwidth requirements.
- SONET Services. Offering the dependability of an industry standard from DS3 to OC-192 services.



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CUSTOMERS

Network

Enterprise

Service Providers

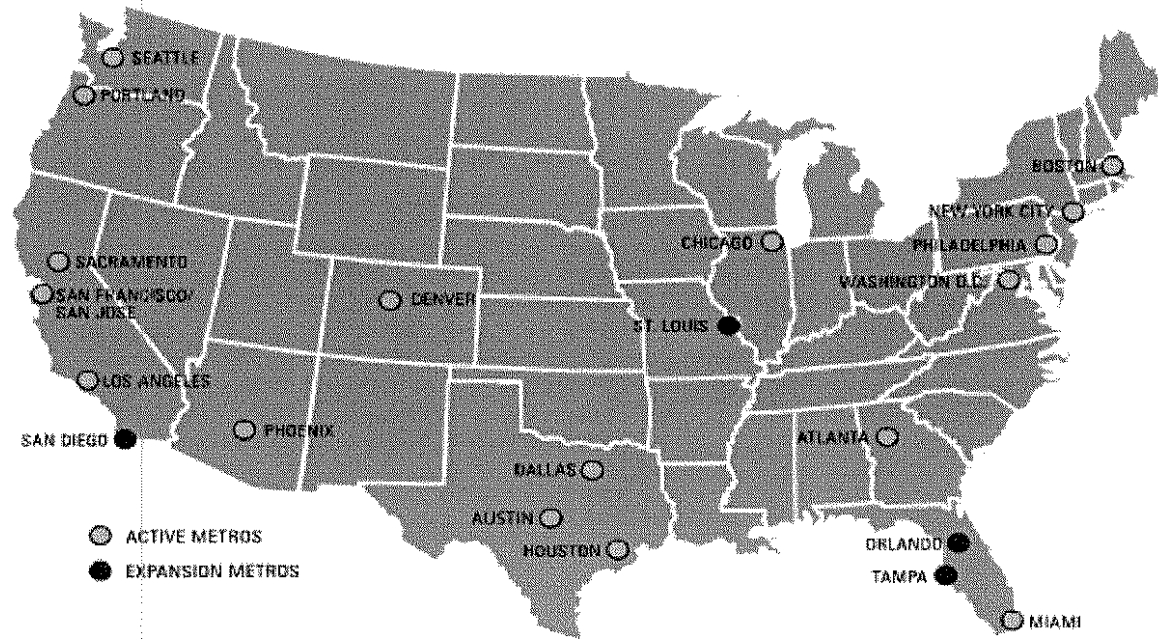
Network

Case Studies

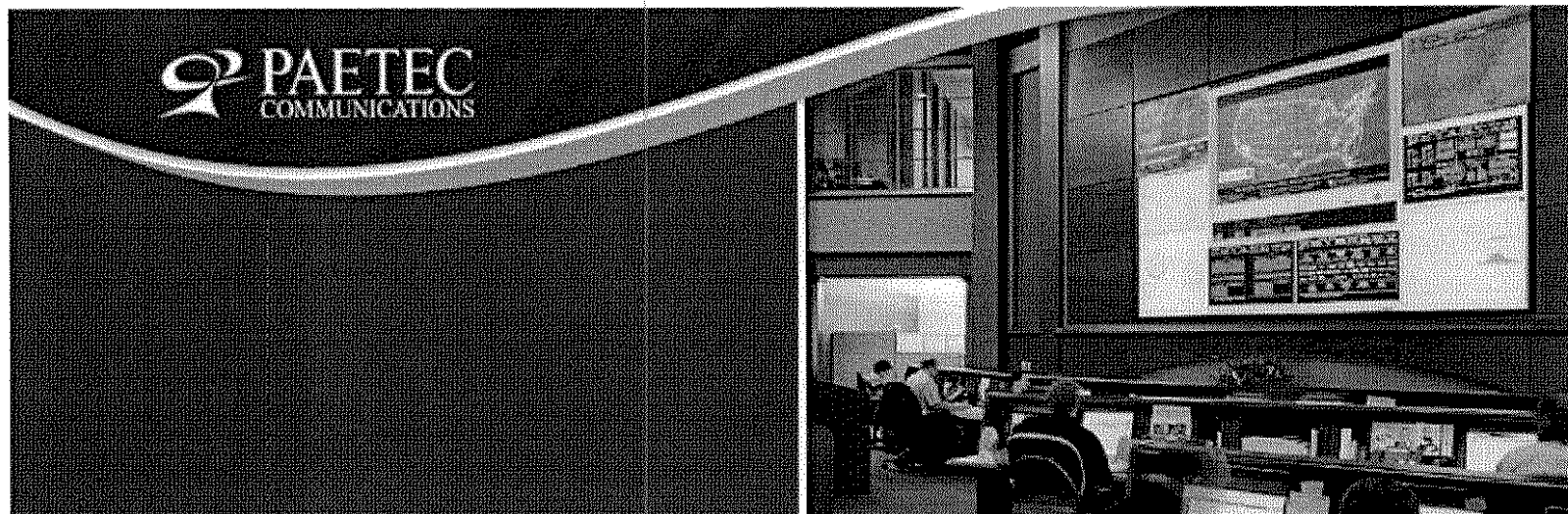
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OUR NETWORK » LOCATIONS

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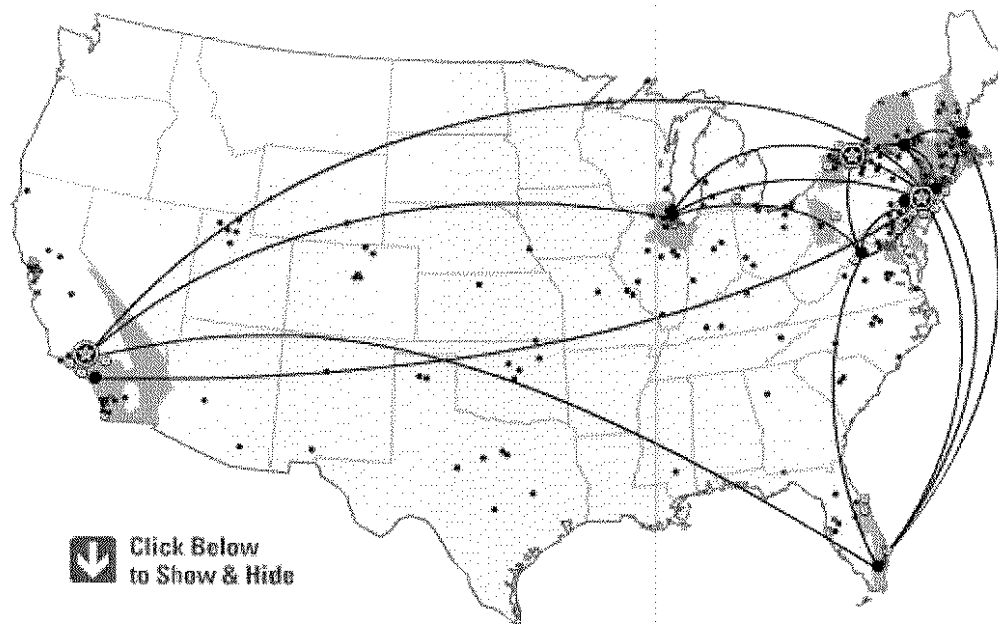
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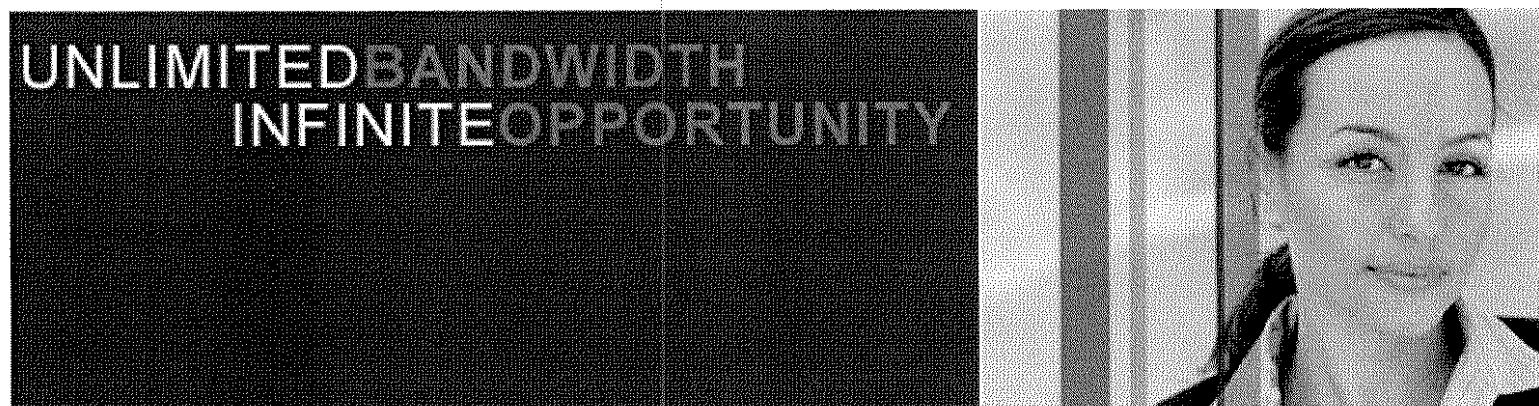


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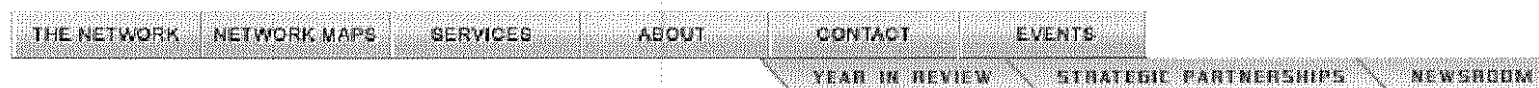
We cover the nation!

PAETEC currently serves customers in 27 markets, including: Albany, Baltimore, Boston, Buffalo, Chicago, Connecticut, Long Island, Los Angeles, Maryland, Miami, New Hampshire, New York City, New Jersey, Orange County, Orlando, Palm Beach/Boca Raton, Philadelphia, Pittsburgh, Poughkeepsie, Rhode Island, Rochester, San Diego, Syracuse, Northern Virginia, Washington DC, and Western Massachusetts, Westchester County.

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UNLIMITED BANDWIDTH
INFINITE OPPORTUNITY



PPL TELCOM

PPL Telcom is an unregulated subsidiary of PPL Corporation, providing broadband connections to telecommunications companies, Internet service providers and large businesses and institutions such as hospitals, schools and government agencies that need high-speed data connections among multiple locations.

THE NETWORK

PPL Telcom's fiber-optic network is strategically situated in the mid-Atlantic region, servicing 15 markets in six states and the District of Columbia. The network consists of over 2,500 route miles of fiber utilizing a DWDM OC-192 system. PPL Telcom's network provides service to customers throughout the northeast corridor between New York and Washington D.C. Locations in the network corridor include Allentown, Bethlehem, Baltimore, Harrisburg, Lancaster, New York, Newark, Philadelphia, Pittsburgh, Reading, Washington D.C., Scranton, Wilkes-Barre, Williamsport and York.

SERVICES

PPL Telcom provides the latest in broadband solutions including:

- :: Private Line Services
- :: Optical Wavelength
- :: Ethernet
- :: Business Internet Access
- :: Colocation



PPL Telcom

PPL Telcom's comprehensive infrastructure and network allows us to provide additional, state-of-the-art services:

- :: Wireless Infrastructure
- :: High-Speed Internet service powered by Broadband over Power Lines (BPL)

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[THE NETWORK](#)[NETWORK MAPS](#)[SERVICES](#)[ABOUT](#)[CONTACT](#)[EVENTS](#)

THE NETWORK

PPLTELCOM :: THE NETWORK

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PPL Telcom has built a world class network, far more redundant and diverse than most. The Network features over 2500 route miles of fiber consisting of 1000 route miles of fiber in 15 Metropolitan Networks, all connected by over 1500 route miles of regional fiber.

The network offers unparalleled connectivity to Mid-Atlantic region destinations. From New York City on the East, Pittsburgh on the West, Washington DC on the south and key markets in between. Our Metropolitan networks feature deep fiber penetration with fiber passes within half a mile of over 100,000 business locations. For the Mid-Atlantic region PPL Telcom provides the first mile, the last mile, and the network in between. With over 1,000 route miles of metro fiber and numerous CO, Peering, and Carrier Hotel colocates, the network offers both unparalleled diversity, and unparalleled connectivity options.

Technologically speaking the PPL Telcom network begins with a diverse fiber core, adds a robust DWDM system offering nearly unlimited capacity, and layers it all with SONET technology to deliver a network that exceeds 99.999% reliability. Products offered include Private Line from T1 to OC-192, Ethernet from 10 Mbps to 1 Gbps, IP Services (Dedicated Internet Access), and Wavelengths at 1G, 2.5G and 10G speeds. PPL Telcom provides Colocation facilities that let you put your networks- and mission critical applications- at the core of one of the most reliable networks ever built.

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